

FIG. 1 WIRELESS ACCESS REFERENCE MODEL

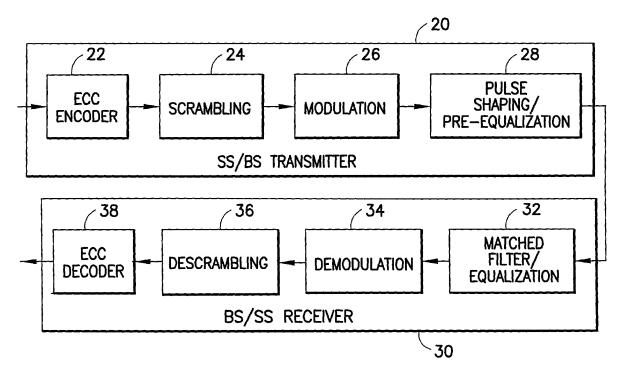
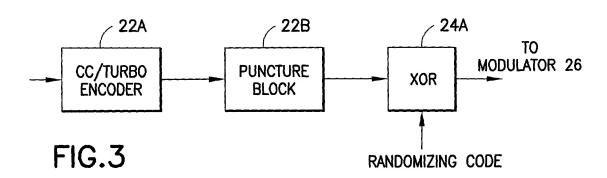


FIG. 2 PHY REFERENCE MODEL SHOWING DATA FLOW

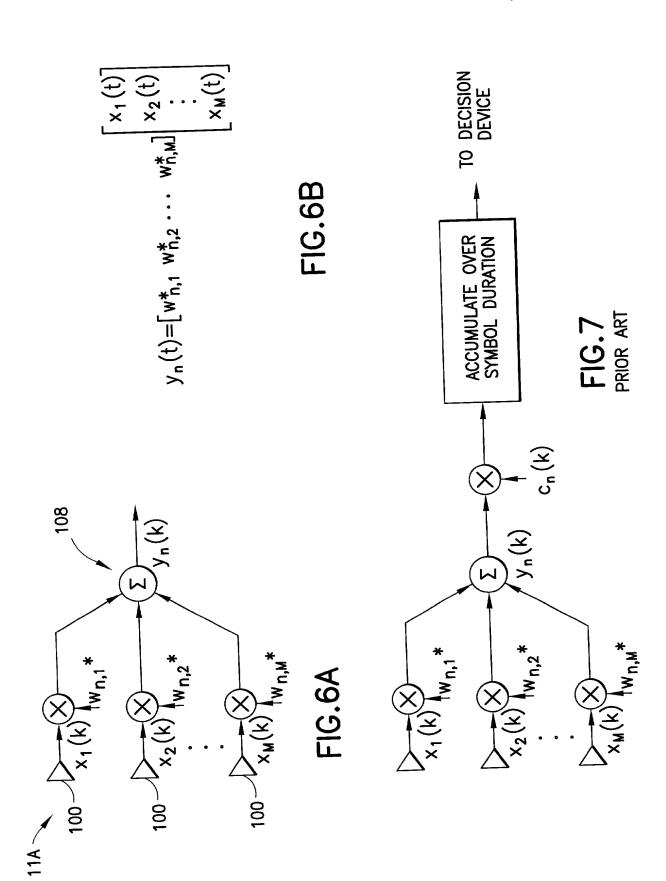


	MODIII ATI	MODI II ATION AND CHANNEL CODING	9
PARAMETER	QPSK W/R=4/5	16-QAM w/R=4/5 CODING	64-QAM W/K=4/5 CODING
	(1.6 BITS/SYM)	(3.2 BITS/SYM)	(4.8 BITS/SYM)
PA DANDWINTH	3.5 MHz	3.5 MHz	3.5 MHz
KF CHANNEL DANDWID !!	2.56 Mcps	2.56 Mcps	2.56 Mcps
CHIP RATE			An age Whos
COMMINICATION CHANNEL BANDWIDTH	4.096 Mbps	8.192 Mbps	cdaw 007.21
	4.096 Mbps	8.192 Mbps	12.288 Mbps
PEAK DATA KAIE			and Man
COMA CHANNEL BANDWIDTH (SF=1)	4.096 Mbps	8.192 Mbps	27.280 MUDDS
CE-16)	256 kbps	512 kbps	768 kbps
CDMA CHANNEL BANDWIDIN (ST-15)			3047 30
COMA CHANNEL BANDWIDTH (SF=128)	32 kbps	64 Kbps	show of
	1.17 bps/Hz	2.34 bps/Hz	3.511 bps/Hz
MODULATION FACTOR	-		

FIG.4 HYPOTHETICAL PARAMETERS FOR A 3.5 MHZ RF CHANNELIZATION

	MSGO	×	16	16 QAM	64	64 QAM
	·					
MBER OF LEMENTS	AGGREGATE CAPACITY (Mbps)	MODULATION FACTOR	AGGREGATE CAPACITY (Mbps)	MODULATION FACTOR	AGGREGATE CAPACITY (Mbps)	MODULATION FACTOR
		4.47	g 102	2.34	12.288	3.511
	4.096) 34 234	16.384	4.68	24.576	7.022
	0.132	2.5	32 768	9.36	49.152	14.044
	16.384	÷.00	25.7.20 85.5.38	18.72	98.304	28.088
æ	32.768	9.30	00000			
9	65.536	18.72	131.072	37.44	196.608	56.176
)						

FIG.5 AGGREGATE CAPACITY AND MODULATION FACTORS VERSUS MODULATION TYPE AND ARRAY SIZE



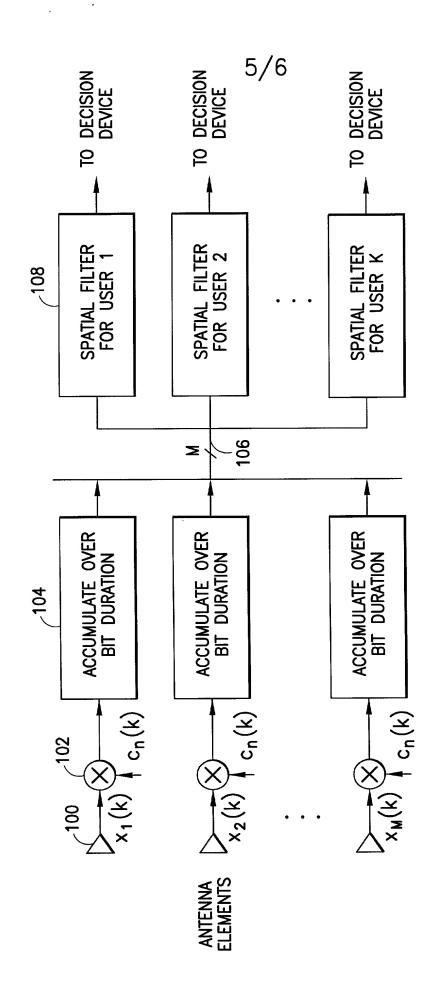


FIG.8

